

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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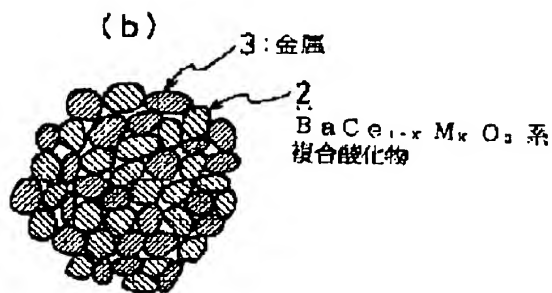
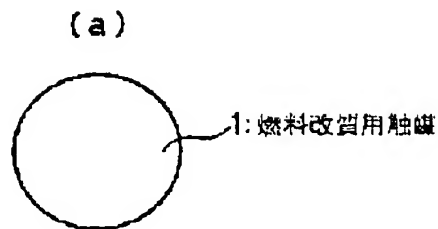
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TITLE : CATALYST FOR MODIFYING FUEL



ABSTRACT : PURPOSE: To obtain a catalyst for modifying fuel which is capable of producing modified fuel high in the concentration of  $H_2$  by modifying C/H fuel such as methane together with steam.

CONSTITUTION: A catalyst 1 for modifying fuel is constituted of cermet of both  $BaCe_{1-x}M_xO_3$ -based composite oxide (wherein M shows Nd, Y and Gd.  $0 < x < 1$ ) 2 having a perovskite structure and metal 3 such as Cr, Fe, Co, Ni, Cu, Mo, Ru, Rh, W, Ta and Pt.  $BaCe_{1-x}M_xO_3$ -based composite oxide itself has catalytic activity and modifies fuel at high conversion ratio. Since  $BaCe_{1-x}M_xO_3$ -based composite oxide is sinterability retardant, catalytic performance based on sintering is not deteriorated. Even when the catalyst is used for a long period, high catalytic activity is maintained.

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